

FIGURE 1

BEST AVAILABLE COPY

SINGLE MEDIA

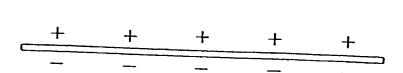
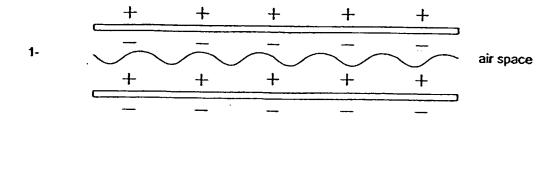


FIGURE 2

4.5

DOUBLE LAYER MEDIA



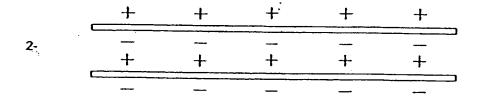
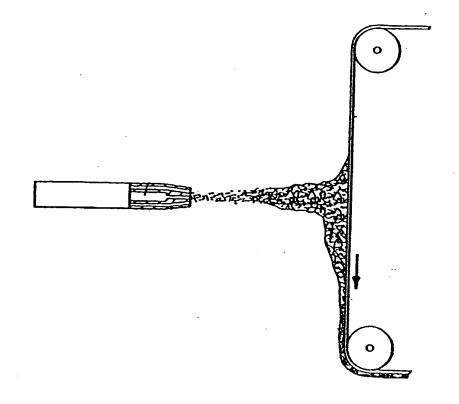


FIGURE 3

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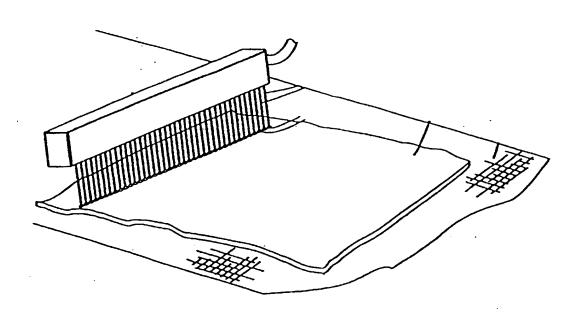


FIGURE 4

- :>

30 min 7.5 LPM

ВG

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EXHIBIT A

Experiment No AF276: Biocidal air filtration membrane project: Performance of different filtration membrane against BG spores for 30, 60, 120, 180, 240, 300 and 360 minutes of filtration

	פר	CFU total	% Reduction
2M03-01-75C+	19.5	0.00€+00	100.00000%
2M03-01-75C+	21.5	0.00E+00	100.00000%
Transweb	17.5	1.75E+01	99.99471%
C+	21.5	3.31E+05	0.00000%
:			
			вс
			120 min
	-		7.5 LPM
	DΓ	CFU total	% Reduction
2M03-01-75C+	12.5	0.00€+00	100.00000%
2M03-01-75C+	19.0	0.00€+00	100.00000%
Transweb	6.5	1.30E+01	99.99496%
C+	16.0	2.58E+05	0.00000%
			BG
			240 min
			7.5 LPM
	DL.	CFU total	% Reduction
2M03-01-75C+	19.0	0.00E+00	100.00000%
2M03-01-75C+	16.0	0.00€+00	100.00000%
Transweb	11.0	0.00E+00	100.00000%
C+	13.0	4.21E+06	0.00000%

			7.5 LPM
	<u>5</u>	CFU total	% Reduction
2M03-01-75C+	16.0	3.20E+01	99.99924%
2M03-01-75C+	17.0	0.00E+00	100.00000%
Transweb	15.0	0.00E+00	100.00000%
C+	18.5	4.20€+06	0.00000%
			BG
			300 mln
			7.5 LPM
	맏	CFU total	% Reduction
2M03-01-75C+	13.5	2.70E+01	99.99884%
2M03-01-75C+	16.0	0.00E+00	100.00000%
Transweb	9.0	0.00E+00	100.00000%
<u>C</u>	9.0	2.32E+06	0.00000%

			BG
			60 min
			7.5 LPM
	딘	CFU total	% Reduction
2M03-01-75C+	21.0	0.00€+00	100.00000%
2M03-01-75C+	20.5	0.00€+00	100.00000%
Transweb	20.0	0.00E+00	100.00000%
C+	18.5	1.49E+06	0.00000%
			BG
			180 mln
			7.5 LPM
	סר	CFU total	% Reduction
2M03-01-75C+	16.0	3.20E+01	99.99924%
2M03-01-75C+	17.0	0.00E+00	100.00000%
Transmak	2 2	000000	100 00000

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EXHIBIT A

for 30, 60, 120, 180, 240, 300 and 360 minutes of filtration Performance of different filtration membrane against BG spores Experiment No AF276: Biocidal air filtration membrane project:

			ВС
			360 min
			7.5 LPM
	סר		% Reduction
2M03-01-75C+	9.0	0.00E+00	100.00000%
2M03-01-75C+	16.0	4.80E+01	99.99923%
Transweb	14.0	0.00E+00	100.00000%
C+	11.0	6.20E+06	0.00000%

For BG tests

Challenge microorganism: BG

Aerosol generated by: 6 jets Modified Collision

Nebulizer

pre-vaporisation: 30 min

Filtration time: 30 minutes Nebulizer air flow: 40 PSI Air flow velocity: 7.5 LPM

Sampling on TSA Collection fluid: 5 ml of PBS with 0.001% antifoam A

Transweb 2M03-01-75C+

Detection Level

Electrostatic non-woven without Triosyn Non-woven + Triosyn + Electrostatic charge

for 60, 120, 180, 240, 300 and 360 minutes of filtration Performance of different filtration membrane against MS2 viruses Biocidal air filtration membrane project:

1.35E+07	4.2	C+		0.00000%	8.50E+06	3.9	C+
4.79E+05	3.9	Transweb		99.01882%	8.34E+04	3.9	Transweb
0.00E+00	4.1	2M03-01-92C+		100.00000%	0.00€+00	3.9	2M03-01-92C+
PFU total 9	욘			% Reduction	PFU total	בר	
7.5				7.5 LPM	7.		
300				240 min	2,		
M				MS2			
7.20E+06	3.6	C+		0.00000%	1.93E+05	4.1	C+
4.23E+03	3.5	Transweb	:	99.08808%	1.76E+03	2.2	Transweb
0.00E+00	4.0	2M03-01-92C+		100.00000%	0.00€+00	4.0	2M03-01-92C+
PFU total 9	한			PFU total % Reduction	PFU total	բ	
7.5				7.5 LPM	7.		
180				120 min	1.		
M				MS2			
				-			
1.20E+06	4.0	C+					

100.00000% 96.45185%

0.00000%

PFU total | % Reduction

7.5 LPM

300 min

MS2

			MS2	
		9	60 min	
		7.	.5 LPM	
	פר	PFU total	% Reduction	
2M03-01-92C+	4.2	0.00€+00	100.00000%	
Transweb	4.3	1.29E+03	99.89250%	
C+	4.0	1.20E+06	0.00000%	

PFU total | % Reduction

100.000000%

99.94125%

7.5 LPM

180 min

MS2

0.000000%

EXHIBIT B

for 60, 120, 180, 240, 300 and 360 minutes of filtration Performance of different filtration membrane against MS2 viruses Biocidal air filtration membrane project:

	•		MS2
		3	360 min
		7.	7.5 LPM
	ב	PFU total	% Reduction
2M03-01-92C+	3.8	0.00E+00	100.00000%
Transweb	3.9	4.62E+05	97.47541%
C+	3.9	1.83E+07	0.00000%
	-	-	

For MS2 tests

Challenge microorganism: MS2

6 jets Modified Collision Nebulizer

Aerosol generated by:

pre-vaporisation: 30 min

Collection fluid: 5 ml of PBS with 0.001% antifoam A Sampling on MS2 media by single layer soft agar Filtration time: 30 mln, 1, 2, 3, 4, 5 and 6 hours

Nebulizer air flow: 40 PSI Air flow velocity: 7.5 LPM

Transweb 2M03-01-92C+

Non woven + Triosyn + Electrostatic Charge Electrostatic Non Woven without Triosyn

Detection Level

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M03-01-69-C+ Transweb

Detection Level

Electrostatic non-woven without Triosyn Non woven + Triosyn + Electrostatic Charge

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EXHIBIT B

Performance of different filtration membrane against MS2 virus Experiment No AF270: Biocidal air filtration membrane project: for 30 minutes of filtration

			MS2
		5	30 min
		7.	7.5 LPM
	בר	PFU total	% Reduction
M03-01-69-C+	4.3	0.00€+00	100.00000%
M03-01-81-C+	4.2	0.00E+00	100.00000%
Transweb	4.0	2.48E+02	99.99757%
C+	3.9	1.02E+07	0.00000%

For MS2 tests

Challenge microorganism: MS2

Aerosol generated by: 6 jets Modified Collision

pre-vaporisation: 30 min

Air flow velocity: 7.5 LPM

Filtration time: 30 minutes Nebulizer air flow: 40 PSI

Collection fluid: 5 ml of PBS with 0.001% antifoam A Sampling on MS2 media by single layer soft agar

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